

New approach of decomposition of complex spectral contours based on particles swarm optimization

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Abstract

© Published under licence by IOP Publishing Ltd. The approach based on the stochastic algorithm of particle swarm optimization was used for mathematical treatment of spectral contours. It was shown that the method supposed allows one to separate complex model spectra and to determine parameters of spectral components. In the mathematical experiments a random fractal noise as a model of noise was applied.

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